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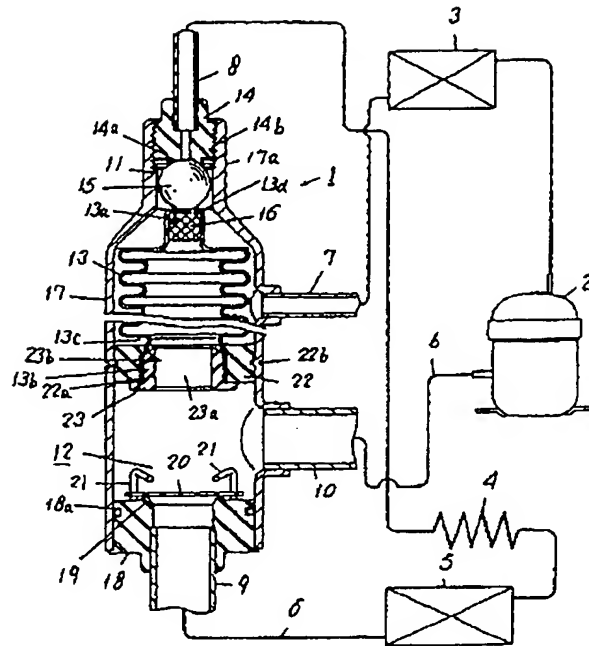
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TITLE : FLUID CONTROL VALVE



ABSTRACT : PURPOSE: To improve a response characteristic for a change of pressure in a valve device opened and closed in accordance with the displacement of a pressure responsive element such as bellows or the like, by constituting the device such that a ball valve is adsorbed by a permanent magnet secured to the pressure responsive element.

CONSTITUTION: In a fluid control valve 1 provided to a refrigerating circuit, its high pressure inlet 7 is connected to a condenser 3, and high pressure outlet 8 is connected to a capillary tube 4, while a low pressure inlet 9 and a low pressure outlet 10 are respectively connected to suction lines 6 connected to a discharge side of a compressor 2. The inside of this fluid control valve 1 is separated into high and low pressure sides by a bellows 13, and a high pressure valve device 11 and a low pressure valve device 12 are provided in the control valve 1. Then the low pressure valve device 12 is constituted by a housing 14 and a ball valve 15, and the ball valve 15 is attractively held by a permanent magnet 16 secured to the upper end of said bellows 13. In this way, a follow up characteristic of the ball valve 15 for the displacement of the bellows 13 is increased.

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